(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



TO THE PROPERTY OF THE PROPERT

(43) International Publication Date 7 October 2004 (07.10.2004)

PCT

(10) International Publication Number WO 2004/084721 A1

(51) International Patent Classification⁷: A61B 5/0456

(21) International Application Number:

PCT/GB2004/001186

(22) International Filing Date: 18 March 2004 (18.03.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0307211.3

28 March 2003 (28.03.2003) GB

- (71) Applicant (for all designated States except US): AD-VANCED MEDICAL DIAGNOSTICS GROUP LIMITED [GB/GB]; 4 Edmund Court, Beaconsfield, Buckinghamshire HP9 1YT (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ELLIS, Malcolm [GB/GB]; 32 Pegholme Drive, Bradford Road, Otley LS21 3NZ (GB). VYCHODIL, Rostislav [CZ/CZ]; Werichova 29, 77900 Olomouc (CZ). PUMPRLA, Jiri [CZ/CZ]; Michalske Stromradi 3, 77200 Olomouc (CZ).
- (74) Agent: BELCHER, Simon, James; Urquhart-Dykes & Lord LLP, Tower North Central, Merrion Way, Leeds LS2 8PA (GB).

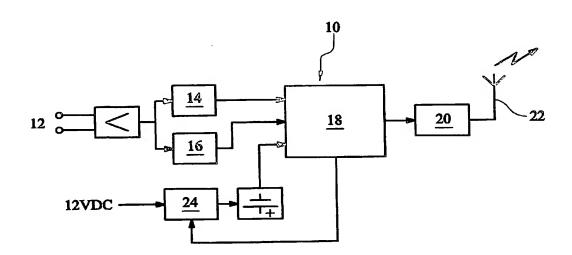
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS FOR PROCESSING AN ECG SIGNAL



(57) Abstract: Apparatus for processing an ECG signal has a transmitter (10) with an input (12) for receiving the signal. The transmitter (10) also has a processor (14, 16, 18) which separates the signal into first and second signal components and manipulates the first signal component to determine the temporal spacing between consecutive R-peaks in the QRS complex of the signal. The second signal component consists of the ECG signal itself. The apparatus also includes a receiver (not shown), to wich the transmitter (10) transmits both the manipulated first signal component and the second signal component.

